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	Application No.	Applicant(s)
	10/725,383	KOH, KWAN-JU
Notice of Allowability	Examiner	Art Unit
	Bommon D. Fordé	2026
Remmon R. Fordé The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. ☑ This communication is responsive to 02/03/05. 2. ☑ The allowed claim(s) is/are 1-22. 3. ☑ The drawings filed on 03 December 2003 are accepted by the Examiner. 4. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date 		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 12/03/03	Paper No./Mail Dat 18), 7. ☐ Examiner's Amendr	:e nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit	- 	ent of Reasons for Allowance
of Biological Material	9.	

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DETAILED ACTION

Election Response

The Examiner hereby acknowledges Applicant's election ,with traverse, of claims 1-8 in correspondence filed 02/03/05. In summary, the traversal is on the grounds that a search on the entire application could be made without serious burden to the examiner. After further consideration, the Examiner hereby withdraws the restriction requirement and will examine all pending claims 1-22.

Reasons For Allowance

Claims 1-22 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1 and 9 recite a MOS transistor structure and a method of making said MOS transistor structure including the specific structural limitations/specific method steps of making: providing a silicon channel region with a predetermined width and a predetermined thickness formed on the bottom of a trench; a gate oxide film located on the channel region; a source and drain region buried in the interior of the trench; a gate groove having a predetermined width is located on the gate oxide film in the interior of the trench; and a gate electrode buried in the gate groove. The abovementioned structural limitations/specific method steps are neither anticipated by nor obvious over

the prior art of record. Likewise, claims 2-8 and 10-22 are also allowable as being dependent upon allowable claims 1 and 9 respectively.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Relevant Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Venkatraman, Einav, Schamberger et al., Ha and Chan et al. each disclose embedded MOSfet devices.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Remmon R. Fordé whose telephone number is (571) 272-1916. The examiner can normally be reached on Monday-Thursday (8:00-6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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